

A central 3D model of a rough diamond is shown in a light gray, semi-transparent style. It is surrounded by a complex network of black lines forming a wireframe structure. Scattered around the diamond are numerous small, dark gray and blue geometric shapes, resembling facets or fragments of a diamond. The background is white with a subtle gradient.

DiaExpert® EDGE
A NEW ERA IN ROUGH PLANNING

Rough diamonds have a complex surface texture, with multiple grooves and features. The first stage in automated rough planning is 3D modeling of the rough stone, which captures its unique surface. In 2001, Sarine Technologies led a revolution in rough planning, with the development of the world's first laser mapping and modeling technology for rough diamonds, called DiaExpert®.

Now, Sarine is pioneering a new era in rough planning with the DiaExpert® Edge, high-precision 3D modeling technology that provides outstanding levels of accuracy, surpassing all other solutions on the market.



DIAEXPERT® EDGE

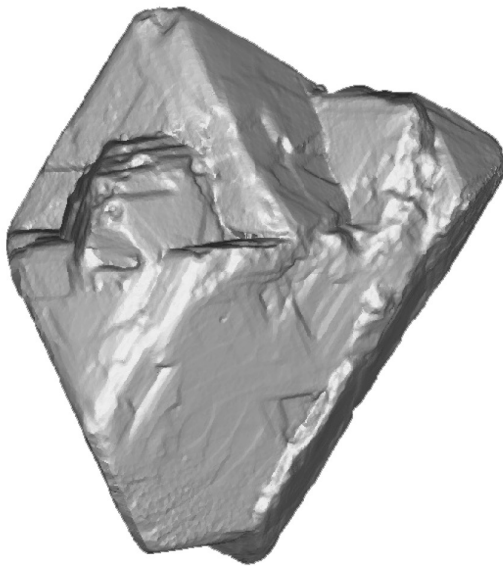
A NEW ERA IN ROUGH PLANNING

Unprecedented Accuracy in 3D Modeling

Current 3D modeling technologies have limited accuracy. They do not adequately capture the rough diamond's tiny surface features, known as naturals, which significantly decrease the diamond's value. With current technologies, the planner must use manual processes to avoid naturals. This intervention requires time and expertise, increasing costs and reducing the yield of polished diamonds extracted from the rough.

DiaExpert® Edge: Upgrade Your Rough Planning Accuracy

The DiaExpert Edge® uses advanced technology to achieve 3D models at unprecedented levels of accuracy, capturing even the most minute surface features and texture with incredible precision and clarity. See the difference in these two 3D models, comparing standard laser mapping and DiaExpert® Edge side by side.



3D modeling with DiaExpert® Edge



3D modeling with standard laser mapping

Benefits of DiaExpert® Edge for Diamond Planners & Manufacturers

- Unprecedented accuracy in 3D modeling of the rough diamond
- Even the tiniest grooves and naturals are captured in the 3D model
- High accuracy levels enable the use of significantly thinner planning margins
- No more need for manual intervention or correction of the 3D model
- Improved integration with Galaxy® inclusion mapping systems
- Accurately maps rough diamonds after complicated sawing procedures, such as V-shape and scope sawing
- No major purchase of new hardware required: DiaExpert Edge™ can be retrofitted on existing DiaExpert® platforms

*For more information or to upgrade/purchase DiaExpert® Edge,
contact your local Sarine distributor*

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